Human TRAIL/TNFSF10 Antibody
Monoclonal Mouse IgG₁ Clone # 75402
Catalog Number: MAB687

DESCRIPTION
Species Reactivity Human
Specificity Detects human TRAIL in direct ELISAs.
Source Monoclonal Mouse IgG₁ Clone # 75402
Purification Protein A or G purified from hybridoma culture supernatant
Immunogen Mouse myeloma cell line NS0-derived recombinant human TRAIL Thr95-Gly281
Accession # P50591
Formulation Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.
*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>0.25 µg/10⁶ cells</td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td>8-25 µg/mL</td>
</tr>
<tr>
<td>CyTOF-ready</td>
<td>Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.</td>
</tr>
</tbody>
</table>

DATA
Flow Cytometry
Detection of TRAIL/TNFSF10 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs), (A) treated with rhIFN-α for 48 hours (150 ng/mL), or (B) untreated, were stained with Mouse Anti-Human TRAIL/TNFSF10 Monoclonal Antibody (Catalog # MAB687) followed by PE-conjugated anti-Mouse IgG Secondary Antibody (Catalog # F0101B) and Mouse Anti-Human CD14 APC-conjugated Monoclonal Antibody (Catalog # FAB3832A). Quadrant markers were set based on control antibody staining (Catalog # MAB002). View our protocol for Staining Membrane-associated Proteins.

Immunohistochemistry
TRAIL/TNFSF10 in Human Colon. TRAIL/TNFSF10 was detected in immersion fixed paraffin-embedded sections of human colon using Human TRAIL/TNFSF10 Monoclonal Antibody (Catalog # MAB687) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm of lamina propria cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE
Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND
TRAIL is a type II transmembrane protein belonging to the TNF superfamily and is now designated TNFSF10. TRAIL is active as a homotrimer and is produced by a variety of cell types in both the membrane bound form and also as a soluble molecule. It binds to any of the four TRAIL receptors as well as to Osteoprotegerin.